

**2019-20 NC Check-In 1**  
**Grade 6 Mathematics**  
**State Item Statistics**

	Content Standard		Item #	Depth of Knowledge	Percent Correct by Item
<b>Ratio and Proportional Relationships</b>	<b>6.RP.1</b>	Understand the concept of a ratio and use ratio language to: <ul style="list-style-type: none"> <li>Describe a ratio as a multiplicative relationship between two quantities.</li> <li>Model a ratio relationship using a variety of representations.</li> </ul>	4	Recall	49.0
			6*^	Recall	74.2
			11^	Recall	77.7
			18^	Recall	70.8
			19^	Recall	61.4
	<b>6.RP.3</b>	Use ratio reasoning with equivalent whole-number ratios to solve real-world and mathematical problems by: <ul style="list-style-type: none"> <li>Creating and using a table to compare ratios.</li> <li>Finding missing values in the tables.</li> <li>Using a unit ratio.</li> <li>Converting and manipulating measurements using given ratios.</li> <li>Plotting the pairs of values on the coordinate plane.</li> </ul>	15^	Skill/Concept	47.1
			16^	Skill/Concept	68.7
			17^	Skill/Concept	66.0
			20^	Skill/Concept	80.3
			21^	Skill/Concept	61.9
<b>The Number System</b>	<b>6.NS.4</b>	Understand and use prime factorization and the relationships between factors to: <ul style="list-style-type: none"> <li>Find the unique prime factorization for a whole number.</li> <li>Find the greatest common factor of two whole numbers less than or equal to 100.</li> <li>Use the greatest common factor and the distributive property to rewrite the sum of two whole numbers, each less than or equal to 100.</li> <li>Find the least common multiple of two whole numbers less than or equal to 12 to add and subtract fractions with unlike denominators.</li> </ul>	1	Skill/Concept	65.2
			9^	Skill/Concept	79.6
			10^	Skill/Concept	36.1
			22^	Recall	81.6
			23^	Skill/Concept	68.5
<b>Geometry</b>	<b>6.G.1</b>	Create geometric models to solve real-world and mathematical problems to: <ul style="list-style-type: none"> <li>Find the area of triangles by composing into rectangles and decomposing into right triangles.</li> <li>Find the area of special quadrilaterals and polygons by decomposing into triangles or rectangles.</li> </ul>	12^	Skill/Concept	51.4
			13^	Skill/Concept	35.8
			14^	Skill/Concept	60.9
			24^	Recall	67.1
			25^	Skill/Concept	34.6
	<b>6.G.4</b>	Represent right prisms and right pyramids using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.	2	Skill/Concept	65.6
			3	Recall	61.7
			5*	Skill/Concept	47.8
			7*^	Skill/Concept	26.8
			8*^	Strategic Thinking	15.7

\* Items marked with an asterisk (\*) are gridded response items.

^ Students had access to a calculator when completing items marked with a ^.

Note: Results from NC Check-Ins should not be compared across interims, districts, or the state.

Each math grade 6 NC Check-In assesses different content standards.